

## WHAT IS CLAIMED IS:

1. A method for converting a public switched telephone network call to a data network call, the method comprising:

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- a) receiving the public switched telephone network call from an origination phone at a destination phone;
  - b) identifying a caller identifier for the public switched telephone network call;
  - c) rejecting the public switched transmission call;
  - d) placing a call to a network service provider;
  - e) determining a network address for the origination phone; and
  - f) completing a network call with the origination phone.

2. The method of claim 1 wherein the destination phone is a personalized computer.

3. The method of claim 1 wherein the destination phone is a customized telephone.

4. The method of claim 1 wherein the call to the network service provider is made via PSTN.

5. The method of claim 1 wherein the call to the network service provider is made via a local area network.

6. A method for converting a public switched telephone network call to a data network call, the method comprising:

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- a) placing a public switched telephone network call from an origination phone to a destination phone;
  - b) detecting a rejected call from the destination phone;
  - c) placing a call to a network service provider;
  - d) determining a network address for the destination phone; and
  - e) completing a network call with the destination phone.

7. The method of claim 6 wherein the origination phone is a personal computer.

8. The method of claim 6 wherein the origination phone is a customized telephone.

9. The method of claim 6 wherein the call to the network service provider is made via PSTN.

10. The method of claim 6 wherein the call to the network service provider is made via a local area network.

11. A network phone, comprising:

- a) a phone connector operable to connect to a public switched telephone network;

- b) a transmitter operable to transmit signals corresponding to a phone number for a call destination and a call identifier;
- c) a detector operable to receive an incoming call from another station and detect supplementary signals associated with that call;
- 5 d) a processor operable to
- i) place a public switched telephone network call to a service provider in response to the supplementary signals;
  - ii) detect a network address for the other station; and
  - iii) complete a network call between the network phone and the other station.

10 12. The network phone of claim 11, wherein the network phone is a personal computer.

13. The network phone of claim 11, wherein the network phone is a customized telephone.

14. A computer-readable medium containing software code that, when executed, results in:

- a) receiving a public switched telephone network call from an origination phone at a destination phone;
- 15 b) identifying a caller identifier for the public switched telephone network call;
- c) rejecting the public switched transmission call;
- d) placing a call to a network service provider;
- e) determining a network address for the origination phone; and
- f) completing a network call with the origination phone.

20 15. The computer-readable medium of claim 14 wherein the software code is executed by a personal compute equipped to place public switched telephone network calls.

16. The computer-readable medium of claim 14 wherein the software code is executed by a customized telephone.

17. A computer-readable medium containing software code that, when executed, results in:

- 25 a) placing a public switched telephone network call from an origination phone to a destination phone;
- b) detecting a rejected call from the destination phone;
- c) placing a call to a network service provider;
- d) determining a network address for the destination phone; and
- 30 e) completing a network call with the destination phone.

18. The computer-readable medium of claim 17 wherein the software code is executed by a personal compute equipped to place public switched telephone network calls.

19. The computer-readable medium of claim 17 wherein the software code is executed by a customized telephone.

20. A network phone, comprising:

- a) a means for connecting to a public switched telephone network;
- b) a means for transmitting signals corresponding to a phone number for a call destination and a call identifier;
- c) a means for receiving an incoming call from another station and detect supplementary signals associated with that call;
- d) a means for placing a public switched telephone network call to a service provider in response to the supplementary signals;
- e) a means for detecting a network address for the other station; and
- f) a means for completing a network call between the network phone and the other station.